



# RESEARCH, DEVELOPMENT and TECHNOLOGY TRANSFER QUARTERLY PROGRESS REPORT (QPR)

Wisconsin Department of Transportation (WisDOT)  
DT1241 5/2014

## INSTRUCTIONS:

Research principal investigators and/or project managers should complete a quarterly progress report (QPR) for each calendar quarter during which the projects are active.

<b>WisDOT Research Program Category</b> <input type="checkbox"/> Policy Research <input checked="" type="checkbox"/> Wisconsin Highway Research Program <input type="checkbox"/> Other: _____		<b>Report Period</b> (enter year and check which quarter) Year: <u>2014</u> <input type="checkbox"/> Quarter 1 (Jan 1 – Mar 31) <input checked="" type="checkbox"/> Quarter 3 (Jul 1 – Sep 30) <input type="checkbox"/> Quarter 2 (Apr 1 – Jun 30) <input type="checkbox"/> Quarter 4 (Oct 1 – Dec 31)	
<b>Project Title</b> <u>Static Pile Load Tests on Driven Piles into Intermediate-Geo Materials</u>		<b>WisDOT Project ID</b> <u>0092-12-08</u>	
<b>Principal Investigator Name</b> <u>James Long</u>	<b>Project Oversight Committee Chair Name</b> <u>Jeff Horsfall</u>	<b>Project Start Date (m/d/yyyy)</b> <u>1/16/2012</u>	
<b>(Area Code) Telephone Number</b> <u>217-333-2543</u>	<b>(Area Code) Telephone Number</b> <u>608-243-5993</u>	<b>Original End Date (m/d/yyyy)</b> <u>7/17/2013</u>	
<b>Email Address</b> <u>jhlong@illinois.edu</u>	<b>Email Address</b> <u>Jeffrey.Horsfall@dot.wi.gov</u>	<b>Current End Date (m/d/yyyy)</b> <u>4/30/2015</u>	

## Project Schedule Status (check one)

☐ On Schedule ☒ On Revised Schedule ☐ Ahead of Schedule ☐ Behind Schedule

## Project Budget Status

Total Project Budget	Expenditures Current Quarter	Total Expenditures	% Funds Expended	% Work Completed
\$95,000.00	\$0.00	\$52,891.03	60%	80%

## Project Description

The objective of the research is to develop and perform static pile load test at sites in Wisconsin and evaluate the results for piles driven into intermediate Geomaterials. Two different locations in the state have been identified. The H-piles shall be driven into IGM under current WisDOT design and construction standards. The static pile load tests, with PDA/CAPWAP analysis will help the department better understand the conditions of driving H-piles in IGM.

## Progress This Quarter (includes meetings, work plan status, contract status, significant progress, etc.)

We are reviewing the analysis results for the 1st and 2nd set of static and dynamic load tests and are putting together a package of results that will be reviewed by an independent expert in pile dynamic testing. We are currently reviewing other work on piles in intermediate geomaterials. Results of current analyses were presented at a project meeting with WisDOT engineers on 9/29 in Madison.

## Anticipated Work Next Quarter

We will continue to conduct analyses for the load test cases that we currently have. Communication with WisDOT engineers indicates that there will be no more field tests available for this project, so we are including work conducted during production pile driving near the 7 existing load test sites. We will also be reviewing other work on piles that have been driven into IGMs.

## Circumstances Affecting Project or Budget

The completion date is April 30, 2015. There have been no circumstances that have occurred this quarter to affect project timing or budget.

## Attach / Insert Gantt Chart and Other Project Documentation

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(\*enter text)

<b>For WisDOT Use Only</b>	
Staff Receiving QPR <a href="#">J. Walejko</a>	Date Received (m/d/yyyy) <a href="#">10/3/2014</a>
Staff Approving QPR <a href="#">Jeff Horsfall</a>	Date Approved (m/d/yyyy) <a href="#">10/24/2014</a>